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TITLE: PRODUCTION OF TITANIUM DIOXIDE
PIGMENT

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a method for producing a titanium dioxide pigment by which difficulty of the operation and lowering of production efficiency when producing the titanium dioxide pigment by coating with a porous silica is avoided by adding a silicic acid salt and an acid to an aqueous slurry of the titanium dioxide pigment while keeping the slurry acidic and thereafter neutralizing the slurry by an alkali.

SOLUTION: A coating layer of porous silica on the surface of a titanium dioxide particle by adding a silicic acid salt (preferably a water-glass, etc.) and an acid (e.g. sulfuric acid) to an aqueous slurry of the titanium dioxide pigment while keeping the slurry in pH1-4, preferably pH2-3 and further neutralizing the slurry by an alkali. The aqueous slurry of the titanium dioxide is preferably obtained by regulating the pH of the slurry to >9 by an alkali compound such as sodium hydroxide, dispersing the titanium dioxide

and adding an acid to regulate the pH to 2-3. The slurry concentration is

preferably 200-400g/L. The coating amount of the porous silica is preferably

2-5wt.% based on the weight of the titaniumdioxide.

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